Title (en)

ERROR CONTROL CODING ARRANGEMENT FOR COMMUNICATION USING CONVOLUTIONALLY ENCODED QAM OR PSK

Publication

**EP 0459524 A3 19930303 (EN)**

Application

**EP 91109029 A 19910603**

Priority

JP 14487490 A 19900601

Abstract (en)

[origin: EP0459524A2] A serial-parallel converter is arranged to convert an information sequence into a plurality of bit sequences. Two convolutional encoders are provided which respectively receive bit sequences from the serial-parallel convertor. Each of the two convolutional encoders outputs first and second bit sequences First parallel-serial converter receives the first bit sequences and converts them into third bit sequence, while second parallel-serial converter receives the second bit sequences and converts them into fourth bit sequence. The third and fourth bit sequences are used to modulate two carriers with a phase difference of pi /2 radians. <IMAGE>

IPC 1-7

**H04L 27/00**; H04L 1/00

IPC 8 full level

**H04L 27/22** (2006.01); **H04L 1/00** (2006.01); **H04L 27/34** (2006.01)

CPC (source: EP US)

**H04L 1/0043** (2013.01 - EP US); **H04L 1/0052** (2013.01 - EP US); **H04L 1/0054** (2013.01 - EP US); **H04L 1/0059** (2013.01 - EP US); **H04L 1/0066** (2013.01 - EP US); **H04L 27/3433** (2013.01 - EP US)

Citation (search report)

- [X] US 4489418 A 19841218 - MAZO JAMES E [US]
- [A] IEE PROCEEDINGS F. COMMUNICATIONS, RADAR & SIGNAL PROCESSING vol. 134, no. 1, February 1987, STEVENAGE GB pages 43 - 52 ZHU AND CLARK 'Rotationally invariant coded PSK signals'

Cited by

EP0782292A3; WO0158106A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0459524 A2 19911204**; **EP 0459524 A3 19930303**; **EP 0459524 B1 19990310**; AU 653339 B2 19940929; AU 7814391 A 19911205; CA 2043782 A1 19911202; CA 2043782 C 19980707; DE 69130965 D1 19990415; DE 69130965 T2 19990826; JP H0481054 A 19920313; US 5384809 A 19950124

DOCDB simple family (application)

**EP 91109029 A 19910603**; AU 7814391 A 19910603; CA 2043782 A 19910603; DE 69130965 T 19910603; JP 14487490 A 19900601; US 18434193 A 19931223